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## Traffic Management System

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# **Traffic Management System**

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## **About The Project**

- 1. Traffic Management System**
- 2. Modernization and Module Architecture**
- 3. Goals**
- 4. Modifying the Software**
- 5. Changing the Target Hardware**

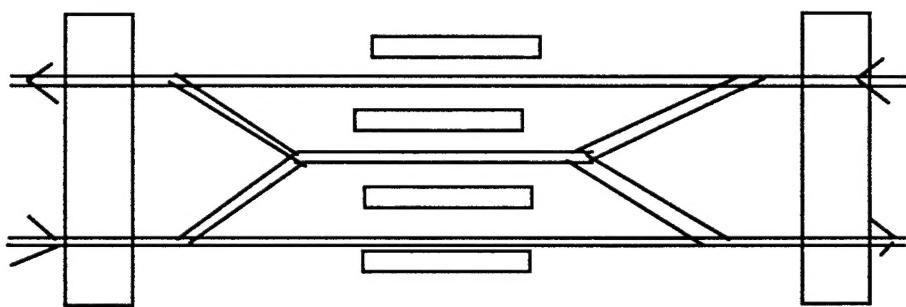
# **Outline**

1. About The Project
2. Requirements of the System
3. Specifications of System
4. Design Specifications
5. Implementation
6. Testing and Maintenance
7. Conclusions

## Specifications of System

1. Hardware Architecture
2. Boundaries of the Problem

**Load/Unload Platform**



**Load/Unload Platform**

Train ID	Arrival	From	Depart	To
3040	0700		0720	Stat B
7676	0800		0830	Stat B
9090	0950		1030	Stat B
1121	1050		1120	Stat B
4426	1200		1210	Stat B
6535	1300		1320	Stat B

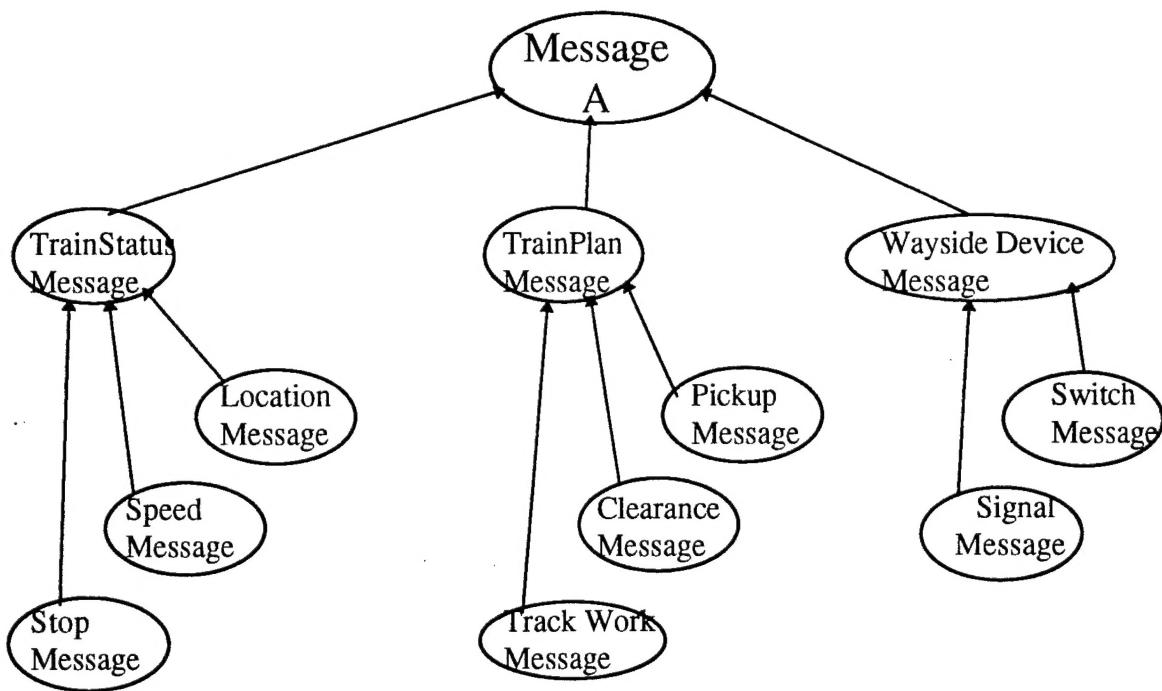
## Requirements of the System

1. Routing
  - Network Control System  
(progress individual routes and tracks)
  - Scheduling
  - Communication Control
2. Train System Monitoring
  - Locomotive analysis and Reporting System
  - Energy Management System
  - On-Board Display System
  - Data-management Unit
  - Train Location Tracking
3. System and Software Requirements  
( Various Scenario for Processing Daily Train orders)

## **Implementation**

- 1. Language C++**
- 2. To be completed in Fall 95**
- 3. System RISC-6000**
- 4. Packages to use:**  
**CADRE/teamwork**  
**SRI Testing Package**

## Design Specifications



## **Testing and Maintenance**

- 1. Tracking the Bugs and Correcting**
- 2. Adding more modules**
- 3. Software Re-use (property of OOD)**

## Conclusions

1. Object-Oriented Design Allows
  - Adding new Functionality
  - Allows Software Reuse Property
2. Studied the Requirements and Specifications of the project
3. Experiences helps to design and implement of other similar projects
4. Hardware Independent Design